## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/33951

A. CLASSIFICATION OF SUBJECT MATTER						
IPC(7) : G01N 24/00, 33/00, US CL : 436/173, 86, 89, 135						
According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 436/173, 86, 89, 135						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			73.1		
Category *	Citation of document, with indication, where ap	propriate, o	of the relevant passages	Relevant to claim No. 1-12, 14-18		
X,P	MASTERSON et al. "Lysine Peroxycarbamates: Free J. Am. Chem. Soc., 28 January 2004, v. 126, No. 3,	Radical-P	romoted Peptide Cleavage",	1-12, 14-10		
х	J. Am. Chem. Soc., 28 January 2004, v. 120, No. 3, JP 53035076A, 01 April 1978 (01.04.1978), Abstract	pp. 120-121 .		14-18		
x	US 5,769,901 A (FISHMAN), 23 June 1998 (23. 06.	,769,901 A (FISHMAN), 23 June 1998 (23. 06.1998), col. 3, lines 9-13 and 25-40		14-18		
A	ELAM et al. "An Alternative Mechansim of Bicarbonate-mediated Peroxidation by Coppe Zinc Superoxide Dismutase", J. Biol. Chem., 06 June 2003, v. 278, No. 23, pp. 21032-21039		ated Peroxidation by Copper- 278, No. 23, pp. 21032-	1-12, 14-18		
	·		•			
Furthe	r documents are listed in the continuation of Box C.		See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance		"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step			
1			when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	document of particular relevance; the considered to involve an inventive ste combined with one or more other suc being obvious to a person skilled in t	ep when the document is th documents, such combination		
i .	nt referring to an oral disclosure, use, exhibition or other means		_			
"P" document published prior to the international filing date but later than the priority date claimed		"&"	document member of the same pater			
Date of the actual completion of the international search		Date of mailing of the international search report  3 1 MAR 2005				
16 March 2005 (16.03.2005)  Name and mailing address of the ISA/US			ed officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450		Ì		Procional Special Communication of the Process of t		
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230				1 \$		

Form PCT/ISA/210 (second sheet) (January 2004)

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	No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.		Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box	k No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4.	$\boxtimes$	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-12 and 14-18		
R	emark on	Protest		
1		140 protest accompanied the payment of activities season research		

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Continuation of Item 4 of the first sheet: METHOD OF PROTEIN ANALYSIS BY MALDI USING PROTEIN FRAGMENTATION WITH PEROXYCARBONATES			
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.			
Group I, claim(s) 1-12 and 14-18, drawn to a method for identifying protein sequences and solutions comprising an amino acid or protein and peroxycarbonate.			
Group II, claim(s) 13, drawn to a compound.			
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: they do not share any common technical feature, since method or solutions do not comprise a compound of structural formal recited in claim 13.			
Continuation of B. FIELDS SEARCHED Item 3: EAST, STN, Google:			
search terms: MALDI, protein, peptide, amino acid, percarbonate, peroxycarbonate			

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